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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,419	02/26/2004	Michiharu Ohta	Q79999	2816
23373 7	590 06/20/2006		EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			RODRIGUEZ, ARMANDO	
SUITE 800			ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20037		2828	

DATE MAILED: 06/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	U.
	10/786,419	OHTA, MICHIHARU	
Office Action Summary	Examiner	Art Unit	
	ARMANDO RODRIGUEZ	2828	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirn rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on This action is FINAL . 2b) ☐ This Since this application is in condition for allowant closed in accordance with the practice under <i>E</i> .	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) 4-8 and 11-15 is/are via 5) Claim(s) 1,2,9 and 10 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 3 is/are objected to. 8) Claim(s) are subject to restriction and/or 	withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:		

DETAILED ACTION

Response to Amendment

Claims 1-15 are pending.

Election/Restrictions

Newly submitted claims 4-8, 11-15 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

Claims 4,11 pertain to a waveguide being expanded toward one of the reflectors as illustrated in figure 4, such limitation is not recited or required by the originally presented claims.

Claims 5-8, 13-15 pertain to a saturable absorber to envelop only the one end of the waveguide as illustrated in figures 5-7, such limitation is not recited or required by the originally presented claims.

Therefore, claims 1-3, 9, 10, claims 4, 11 and claims 5-8, 13-15 mutually exclude each other, as pertaining to different species.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 4-8, 11, 13-15 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the concave

configuration relative to the other must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Applicant only illustrates one concave reflector and fails to illustrate the other (reflector).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 9 and 10 are objected to because of the following informalities: "rotor" is being interpreted by the examiner as rotator. Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3, 9, 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant has failed to defined the recited limitation "relative to the other", the claims, the drawings and the specification fail to define, illustrate or describe the concave configuration relative to the other, thereby claim 1 is vague and indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al (US 6,097,741) in view of Chee et al (US 5,046,184).

Regarding claims 1 and 2,

Lin et al illustrates in figure 4F a passively mode-locked fiber laser having a pair of rflectors (113) and (126), an amplifying fiber (130) and a saturable absorber (125), which envelop an end face of the waveguide. Lin et al portrays the reflector and fiber as having a flat configuration.

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Lin et al is silent as to the reflector (126) being concave and is silent as to the amplifying fiber end being convex.

However, it is well-known in the art to provide mode-locking laser cavities with concave mirrors as illustrated in figures 1 and 2 of Chee et al.

Furthermore, in accordance with MPEP 2144.04 B

B. Changes in Shape

In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966) (The court held that the configuration of the claimed disposable plastic nursing container was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed container was significant.).

In the instant application the shape of the reflector or the fiber being flat, concave or convex is considered a matter of choice because regardless of the shape of the reflector it will provide a reflection of the beam to form a resonant cavity and regardless of the end of the amplifying fiber it will guide and amplify the beam.

Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al (US pat. 6,097,741) in view of Harter et al. (US pat. 6034975).

With respect to claim 3, Lin discloses everything claimed above without specifically disclosing an in-line fiber Faraday rotator. An in-line fiber Faraday rotator is well taught by Hader (see fig. 1).). It would have been obvious to one of ordinary skill in the ad at the time the invention was made to combine Lin's invention with Harter to

compensate for polarization drifts in the cavity, as disclosed by Harter (see col. 2, lines 9-10).

Allowable Subject Matter

Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ARMANDO RODRIGUEZ

Primary Examiner

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